Overview of Basal Methods

- The Basal Quick Dip, Basal Long Soak and Basal Dry Dip Methods are used on
  - leafy cuttings in the growing season or dormant
  - leafless cuttings
  - dormant cuttings
- Basal methods can be used all year.
- Rooting Solutions or rooting hormone powders are applied to the basal end of cuttings.

ROOTING PRODUCTS USED
Dry Dip Rooting Hormones
- Rhizopon AA #1, #2 and #3.
To make Rooting Solutions:
- Hortus IBA Water Soluble Salts.
- Rhizopon AA Water Soluble Tablets.

MODE OF ACTION
Rooting Solutions or dry powder rooting hormones are applied to the basal end of the cuttings. The rooting hormones absorbed into the plant’s vascular system where they are stored; they are slow released by the plant to induce root formation.

<table>
<thead>
<tr>
<th>METHODS</th>
<th>PRODUCTS TO USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASAL QUICK DIP METHOD</td>
<td>Use Rooting Solutions made with Hortus IBA Water Soluble Salts or Rhizopon AA Water Soluble Tablets</td>
</tr>
<tr>
<td>BASAL LONG SOAK METHOD</td>
<td>Use Rhizopon AA #1, #2, or #3 Dry Dip Rooting Hormones</td>
</tr>
</tbody>
</table>

The selection of a method, either Dry Dip or by Rooting Solution, usually depends upon the plant variety. Many plants have successful rooting with Dry Dip methods and/or Rooting Solution methods.
The Quick Dip Method

Using the Basal Quick Dip Method you can propagate plants from cuttings from easy to difficult to root. You dip the basal end of the cuttings into the Rooting Solution for about five seconds then stick.

USE ON MANY TYPES OF PLANT CUTTINGS

<table>
<thead>
<tr>
<th>In the Growing Season</th>
<th>Leafy cuttings: Tropical plants. Annual and perennial plants. Woody ornamental plants. Forestry plants.</th>
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<tr>
<td>All Year</td>
<td>Leafy and leafless cuttings: Tropical plants. Annual and perennial plants. Woody ornamental plants. Forestry plants.</td>
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<tr>
<td>Winter Dormant Cuttings</td>
<td>Leafless cuttings: Woody ornamental plants. Forestry plants.</td>
</tr>
<tr>
<td>All Year</td>
<td>Leafy &amp; leafless cuttings: Hard-to-root cuttings.</td>
</tr>
</tbody>
</table>

EQUIPMENT
Dispense Rooting Solutions into small cups.

ROOTING PRODUCTS USED
To make Rooting Solutions:
- Hortus IBA Water Soluble Salts.
- Rhizopon AA Water Soluble Tablets

HOW TO USE THE BASAL QUICK DIP METHOD
- Wound woody cuttings by making a 3/4 inch slit at the side of the basal end is optional. Herbaceous cuttings are not wounded.
- Immerse the basal end of the cuttings about 3/4-1 inch into the Rooting Solution for about five seconds.
- Stick the treated cuttings in the media, or put in plastic bags and store until sticking or planting out.
- Turn on misters as required.
- After treatment discard the used Rooting Solution.
The Basal Long Soak Method

Using the Basal Long Soak Method you can propagate plants from cuttings that are difficult to root. It is also used on easier to root cuttings. Both hard to woody plant cuttings and herbaceous cuttings benefit. Low Rooting Solution rates are used. Basal Long Soak eliminates high rates by the Quick Dip Method rates or Dry Dip rooting powders.

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<tr>
<th>In the growing season</th>
<th>Leafy cuttings: annuals, perennials, ornamental and forestry plants.</th>
</tr>
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<tbody>
<tr>
<td>All year</td>
<td>Ornamental and forestry plants.</td>
</tr>
<tr>
<td>Winter dormant cuttings</td>
<td>Ornamental and forestry plants.</td>
</tr>
</tbody>
</table>

EQUIPMENT
Use a tank.

ROOTING PRODUCTS USED
To make Rooting Solutions:
• Hortus IBA Water Soluble Salts.
• Rhizopon AA Water Soluble Tablets.

HOW TO USE THE BASAL LONG SOAK METHOD
• Wounding of woody cuttings is optional. Herbaceous cuttings are not wounded.
• Bundle cuttings so they are erect in the tank.
• Immerse the basal end of the cuttings about 3/4-1 inch into the Rooting Solution. (See photo page 26)
• Soak about 12-48 hours.
• Stick the treated cuttings in the media, or put in plastic bags and store until sticking or planting out.
• Turn on misters as required.
• After treatment discard the used Rooting Solution.
USE THE BASAL LONG SOAK METHOD TO IMPROVE ROOTING OF HARD-TO-ROOT CUTTINGS

When propagating plants from cuttings, if roots do not form, some growers unsuccessfully apply plant rooting hormones at high concentrations. They may use rates above 5000 ppm IBA and perhaps get variable results. If alcohol based Rooting Solutions are used they will cause burns and plant mortality.

SOLUTION

Use the basal long soak method to replace other high concentration methods.

High plant rooting hormone concentrations may inhibit root formation. For difficult to root cuttings, the Basal Long Soak Method can successfully replace the Basal Quick Dip or Dry Dip Methods. The Basal Long Soak Method uses very low concentrations of Rooting Solution.

MODE OF ACTION

Using the Basal Long Soak Method, cuttings slowly absorb the Rooting Solution. The plant stores the plant rooting hormones at the basal end where it slow releases them for root formation.

TIMING

The Basal Long Soak Method is used all year on all types of cuttings. Used in the fall, cuttings can be kept in cold storage and planted out in the spring. They can also be treated before planting.

Bundle cuttings, then immerse basal end 3/4-1 inch into the Rooting Solution for 12-48 hours, then plant or store.

The Basal Long Soak Method is as important as ever! Developed in the 1930's, the Basal Long Soak Method was one of the first successful ways growers used rooting hormones to propagate plants from cuttings.
The Dry Dip Method

Using the Dry Dip Method you can propagate plants from cuttings from easy to difficult to root. Rhizopon AA #1, #2 and #3 rooting powders are used. When treating cuttings with different rate needs, simply switch powders. Color coding assures that the proper product is used.

**USE ON MANY TYPES OF PLANT CUTTINGS**

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<td>All year.</td>
<td>Tropical plants annuals, perennials, woody ornamental and forestry plants.</td>
</tr>
<tr>
<td>Winter dormant cuttings.</td>
<td>Woody ornamental and forestry plants.</td>
</tr>
<tr>
<td>All year.</td>
<td>Hard to root cuttings.</td>
</tr>
</tbody>
</table>

**THE METHOD**

**EQUIPMENT**

Rooting powers are taken from the stock container and put into small cups.

**ROOTING PRODUCTS USED**

Dry Dip Rooting Hormones:

- **Rhizopon AA #1 (0.1% IBA) is PINK color** for easier to root cuttings
- **Rhizopon AA #2 (0.3% IBA) is GREEN color** for root many types of cuttings
- **Rhizopon AA #3 (0.8% IBA) is WHITE color.** for more difficult to root cuttings
HOW TO USE THE DRY DIP METHOD

• Take off a small portion of the powder for your immediate use. Do not contaminate the stock container by returning used portion to the container.
• Take plant cuttings, usually 4-6 inch stem cuttings, from the current year’s growth.
• Wound woody cuttings by making a 3/4 inch slit at the side of the basal end is optional. Herbaceous cuttings are not wounded.
• Dip the basal end of the cuttings 3/4-1 inch into the Rhizopon AA powder. Tap off the excess powder.
• Avoid contact between the powder and foliage and other over ground parts of the stem. A small amount of powder on the leaves will not affect the quality of the rooting.
• Stick the treated cuttings in the media, or put in plastic bags and store until sticking or planting out. A dribble hole is useful to allow entry of the cutting into the media without pushing off the rooting powder.
• Turn on misters as required.
• After treatment discard used rooting powder.